



# KOLLER

## FORSTTECHNIK

KOLLER GmbH · Kufsteiner Wald 26 · A-6334 Schwoich bei Kufstein/Austria · Tel. 0043-5372-63257 · Fax 63257-7

# Your professional partner



Edition 2015



[www.kollergmbh.com](http://www.kollergmbh.com)



# K300T

## Tractor mounted yarder – for uphill logging

**The K300T** is an internationally approved tractor / 3-point mounted yarder for uphill logging. It assures easy handling, reliable and rugged design, as well as short rig up and dismantling times. A hydraulically raised lattice tower is standard.

- Worldwide, over 450 in use
- Compact and cost-effective solution for small volume harvest
- Ideal for the small woodlot owner

### TECHNICAL DATA :

#### Line pull:

Skyline 9,700 lbs / 44 kN (tension section)  
Mainline 3,970 lbs / 18 kN (average drum)

#### Line capacity:

Skyline 1650' Ø 9/16" /  
500 m Ø 14 mm swaged  
(1300' Ø 5/8" / 450 m Ø 15 mm)  
Mainline 2250' Ø 5/16" /  
550 m Ø 8 mm swaged  
(1450' Ø 3/8" / 450 m Ø 9 mm)  
Guyline 3x100' Ø 5/8" / 3x30 m Ø 16 mm  
2x30' / 2x10 m extensions

#### Line speed:

Unloaded drive user defined by brake  
Loaded drive up to 705 ft/min / 215 m/min

#### Tower:

Standard 24' / 7,2 m  
With tower extension 28' / 8,4 m  
Operating range on the left side of the yarder

#### Power station:

- P.T.O. of the tractor (mechanically driven)
- Engine power of the tractor: minimum 49 HP (36 kW)
- Hydraulically operated single disk dry clutches on both drums

#### Brakes:

Skyline manually actuated band brake  
Mainline hydraulically actuated spring-applied band brake

#### Operation:

- Hydromechanical / electro-hydraulic single lever operation with dead-man's control

#### Carriage:

SKA 1 / SKA 1-Z

#### Weight:

3,400 lbs / 1.550 kg without lines  
4,500 lbs / 2.050 kg including lines (non-swaged lines)  
4,950 lbs / 2.250 kg including lines (swaged lines)



**K300T with standard tower**



# K301 T

## Tractor mounted yarder – for uphill logging

The **K301T** is a tractor / 3-point mounted yarder for uphill logging.

It assures easy handling, reliable and rugged design, as well as very short rig up and dismantling time. Particularly suitable for thinning and small wood harvesting operations.

- Logging is possible off both sides of the yarder
- Compact and cost-effective solution for small diameter tree harvest
- Ideal for the start-up companies

### T E C H N I C A L   D A T A :

#### Line pull:

Skyline 11,000 lbs / 50 kN (tension section)  
Mainline 5,740 lbs / 26 kN (average drum)

#### Line capacity:

Skyline 1700' Ø 5/8" /  
500 m Ø 16 mm swaged  
(1150' Ø 3/4" / 400 m Ø 18 mm)  
Mainline 1800' Ø 3/8" /  
630 m Ø 9 mm swaged  
(1250' Ø 7/16" / 500 m Ø 10 mm)  
Guyline 4x160' Ø 5/8" / 4x50 m Ø 16 mm  
2x30' / 2x10 m extensions

#### Line speed:

Unloaded drive user defined by brake  
Loaded drive up to 605 ft/min / 185 m/min  
up to 740 ft/min / 255 m/min  
(with optional auxiliary transmission)

#### Tower:

Standard 29' / 8,8 m  
With tower extension 33' / 10,0 m  
Operating range 360°

#### Power station:

- P.T.O. of the tractor (mechanically driven)
- Engine power of the tractor: minimum 89 HP (66 kW)  
120 HP (90 kW) with an auxiliary transmission
- Hydraulically operated single disk dry clutches  
on both drums

#### Brakes:

Skyline manually actuated band brake  
Mainline hydraulically actuated spring-applied  
band brake

#### Operation:

- Hydromechanical / electro-hydraulic single lever  
operation with dead-man's control

#### Carriage:

SKA 1 / SKA 1-Z

#### Weight:

5,000 lbs / 2.260 kg without lines  
6,950 lbs / 3.150 kg including lines (non-swaged lines)  
7,600 lbs / 3.450 kg including lines (swaged lines)



**K301T with tower extension**



**K301T with standard tower**



# K300H / K303H Trailer

Trailer mounted yarder - for uphill and downhill logging

**The K300H** is a yarder for uphill logging with an optional haulbackline drum (K303H).

Also for downhill logging and for flat terrain. It assures easy handling, reliable and rugged design, as well as very short rig up and dismantling times.

- Lightweight and compact yarder mounted on a single axle trailer
- For thinning, selective cuts and small wood harvesting operations
- Cost-effective and lightweight 3-drum yarder

## TECHNICAL DATA :

### Line pull:

Skyline	9,700 lbs / 44 kN (tension section)
Mainline	3,970 lbs / 18 kN (average drum)
Haulbackline	3,970 lbs / 18 kN (average drum)

### Line capacity:

Skyline	1650' Ø 9/16" / 500 m Ø 14 mm swaged (1300' Ø 5/8" / 450 m Ø 15 mm)
Mainline	2250' Ø 5/16" / 550 m Ø 8 mm swaged (1450' Ø 3/8" / 450 m Ø 9 mm)
Haulbackline (only K303H)	2900' Ø 3/8" / 980 m Ø 9 mm (2050' Ø 7/16" / 800 m Ø 10 mm)
Guyline	3 or 4x100' Ø 5/8" / 3 or 4x30 m Ø 16 mm 2x30' / 2x10 m extensions

### Line speed:

Mainline	
Unloaded drive	user defined (by brake) or up to 1115 ft/min / 340 m/min hydrostatic
Loaded drive	up to 1115 ft/min / 340m/min
Haulbackline	
Unloaded drive	up to 1500 ft/min / 460m/min
Loaded drive	up to 750 ft/min / 230m/min

### Tower:

Standard	24' / 7,2 m
With tower extension	28' / 8,4 m
Operating range	on the left side of the yarder

### Power station:

- Deutz 4-cylinder diesel engine with 101 HP (75 kW)
- Continuous hydrostatic transmission for all winches
- Hydraulically operated single disk dry clutches on the skyline / mainline drum and oil motor on the haulbackline drum

### Brakes:

Skyline	manually actuated band brake
Mainline	hydraulically actuated band brake
Haulbackline	hydraulically actuated shoe brake

### Operation:

- Hydromechanical / electro-hydraulic single lever operation with dead-man's control for up and downhill logging with hydraulic interlock

### Carriage:

SKA 1 / SKA 1-Z / USKA 1,5

### Total weight:

K300: 8,400 lbs / 3.800 kg including lines  
K303: 10,600 lbs / 4.800 kg including lines

For non-European market only.



**K303H with tower extension**



**K300H with standard tower**



**K303H with standard tower**

# K307H Trailer

**NEW**

Trailer mounted yarder - for uphill and downhill logging

The **K307H** is a development of the K306H with new winch transmission and improved towerhead. The K307H is a proven yarder for uphill and downhill logging with an optional haulbackline drum. It is principally used for thinning, selective cuts and for general wood harvesting operations. A tandem axle trailer with pressure air-brakes is used as a carrier.

- 4 hydraulically powered guyline winches – operation by radio control
- Skyline spooling guided by hydraulic cylinder
- Large dimension, maintenance-free radial air clutches

## TECHNICAL DATA :

### Line pull:

Skyline	14,330 lbs / 65 kN (tension section)
Mainline	5,500 lbs / 25 kN (average drum)
Haulbackline	5,280 lbs / 24 kN (average drum)

### Line capacity:

Skyline	2800' Ø 5/8" / 840 m Ø 16 mm swaged
Mainline	2500' Ø 3/8" / 840 m Ø 9 mm swaged
Haulbackline	5400' Ø 3/8" / 1850 m Ø 9 mm swaged
Straw line	6800' Ø 3/16" / 1900 m Ø 5 mm
Guyline	4x160' Ø 5/8" / 4x50 m Ø 16 mm 2x30' / 2x10 m extensions

### Line speed:

Mainline	
Unloaded drive	up to 2100 ft/min / 640 m/min
Loaded drive	up to 1150 ft/min / 350 m/min
Haulbackline	
Unloaded drive	up to 1540 ft/min / 470 m/min
Loaded drive	up to 1050 ft/min / 320 m/min

### Tower:

Standard	33' / 10,2 m
Foldable tower	33' / 10,2 m
Operating range	360°

### Power station:

- Deutz 4-cylinder diesel engine with 168 HP (125 kW)
- Continuous hydrostatic transmission for all winches
- Pneumatically operated radial clutches on the skyline / mainline drum

### Brakes:

Skyline	hydraulically actuated spring-applied disk brake
Mainline	hydraulically actuated spring-applied band brake
Haulbackline	hydraulically actuated spring-applied multi-disk brake
Straw line	hydraulically actuated spring-applied multi-disk brake

### Steuerung:

- **KOLLERMULTIMATIK** by operator console
- Radio control for auxiliary functions

### Carriage:

SKA 1-Z / USKA 1,5

### Total weight including lines:

Trailer for uphill logging: 19,800 lbs / 9.000 kg  
Trailer for up and downhill logging: 24,300 lbs / 11.000 kg  
Add. weight - foldable tower (optional): 265 lbs / 120 kg



**K307H with hydraulically foldable tower**



**K307H for uphill and downhill logging**



# K 602H Trailer

Trailer mounted yarder - for uphill and downhill logging

**The K602H** is a powerful yarder for uphill, downhill or flat terrain logging with an optional haulbackline. It is principally used for selective cuts and for general wood harvesting operations. A tandem axle trailer with pressure air-brakes is used as a carrier. The trailer supports are hydraulic.

- Proven components and maximum power – long reach and high line pull power
- Optional with hydrostatic axle drive – electrically controlled by the engine of the trailer
- Adaptable by many options to suit your individual requirements
- Skyline spooling guided by hydraulic cylinder

## TECHNICAL DATA :

### Line pull:

Skyline	20,940 lbs / 95 kN (tension section)
Mainline	11,020 lbs / 50 kN (average drum)
Haulbackline	9,480 lbs / 43 kN (average drum)

### Line capacity:

Skyline	700 m Ø 13/16" / 2250' Ø 7/8" / 830 m Ø 20 mm swaged
Mainline	2100' Ø 1/2" / 730 m Ø 12 mm swaged
Haulbackline	3950' Ø 1/2" / 1350 m Ø 12 mm swaged (5150' Ø 7/16" / 1600 m Ø 11 mm swaged)
Straw line	5500' Ø 1/4" / 1700 m Ø 6 mm
Guyline	4 or 5x160' Ø 3/4" / 4 or 5x50 m Ø 20 mm 2x50' / 2x15 m extensions

### Line speed:

Mainline	up to 1960 ft/min / 600 m/min
Haulbackline	
Unloaded drive	up to 1655 ft/min / 504 m/min
Loaded drive	up to 1260 ft/min / 384 m/min

### Tower (according to country-specific traffic laws!):

Standard	34' / 10,5 m
With tower extension	possible up to 46' / 14 m
Foldable tower	34' / 10,5 m
Telescopic tower	up to 44' / 13,5 m (two working positions)
Operating range	360°

### Power station:

- Deutz 6-cylinder diesel engine with 197 HP (147 kW)
- Continuous hydrostatic transmission for all winches
- Pneumatically operated radial clutches on the skyline / mainline drum

### Brakes:

Skyline	2 hydraulically actuated spring-applied disk brakes
Mainline	pneumatically actuated spring-applied band brake
Haulbackline	hydraulically actuated spring-applied multi-disk brake
Straw line	hydraulically actuated spring-applied multi-disk brake

### Operation:

- **KOLLERMULTIMATIK** by operator console
- Radio control for auxiliary functions

### Carriage:

SKA 2,5-Z / USKA 2,5 / MSK 4 / MSK 10

### Total weight including lines:

Trailer for uphill logging: 28,700 lbs / 13.000 kg  
 Trailer for up and downhill logging: 32,600 lbs / 14.800 kg  
 Add. Weight – tool boxes (optional): 660 lbs / 300 kg  
 Add. Weight – powered axle (optional): 2,000 lbs / 900 kg  
 Add. Weight – foldable tower (optional): 660 lbs / 300 kg  
 Add. Weight – tower extension (optional): up to 620 lbs / 280 kg  
 Add. Weight – telescopic tower (optional): 1,100 lbs / 500 kg



**K602H with telescopic tower**



**K602H with hydraulically foldable tower**





# K307 GH Mountain Harvester

**NEW**

Truck mounted yarder - for uphill and downhill logging, with crane and processor head

The **K307GH** Mountain harvester is a compact tower yarder for uphill and downhill logging with an optional haulbackline drum. It is principally used for thinning and selective cuts, but it can also be used for general wood harvesting operations. A 3- oder 4-axe truck with special reinforced frames is used as a carrier.

- 4 hydraulically powered guyline winches – operated by radio control
- Skyline spooling guided by hydraulic cylinder
- Large dimension, maintenance-free, pneumatic actuated radial air clutches

## TECHNICAL DATA :

### Line pull:

Skyline	14,330 lbs / 65 kN (tension section)
Mainline	5,510 lbs / 25 kN (average drum)
Haulbackline	5,280 lbs / 24 kN (average drum)

### Line capacity:

Skyline	2800' Ø 5/8" / 840 m Ø 16 mm swaged
Mainline	2500' Ø 3/8" / 840 m Ø 9 mm swaged
Haulbackline	5400' Ø 3/8" / 1850 m Ø 9 mm swaged
Straw line	6800' Ø 3/16" / 1900 m Ø 5 mm
Guyline	4x160' Ø 5/8" / 4x50 m Ø 16 mm 2x30' / 2x10 m extensions

### Line speed:

Mainline	
Unloaded drive	up to 2100 ft/min / 640 m/min
Loaded drive	up to 1150 ft/min / 350 m/min
Haulbackline	
Unloaded drive	up to 1540 ft/min / 470 m/min
Loaded drive	up to 1050 ft/min / 320 m/min

### Tower:

Standard	34' / 10,5 m
Operating range	360°

### Power station:

- Truck diesel engine with 434 HP (324 kW) for example
- Utilization of the direct auxiliary drive (gearbox independent) – so the full engine power can be used without any transmission problems
- Continuous hydrostatic transmission for all winches
- Pneumatically operated radial clutches on the skyline / mainline drum

### Brakes:

Skyline	hydraulically actuated spring-applied disk brake
Mainline	hydraulically actuated spring-applied band brake
Haulbackline	hydraulically actuated spring-applied multi-disk brake
Straw line	hydraulically actuated spring-applied multi-disk brake

### Operation:

- **KOLLERMULTIMATIK** and operator cabin
- Radio control for auxiliary functions

### Carriage:

SKA 1-Z / USKA 1,5

### Total weight including lines:

On a 3-axe truck for uphill logging: 61,700 lbs / 28.000 kg  
On a 4-axe truck for up and downhill logging: 70,500 lbs / 32.000 kg



**K307GH 4-axe truck for up and downhill logging**



**K307GH 3-axe truck for uphill logging**



# K507 GH Mountain Harvester

Truck mounted yarder - for uphill and downhill logging, with crane and processor head

**The K507GH** is a powerful mountain harvester for uphill, downhill and flat terrain logging.

It is principally used for selective cuts and for general wood harvesting operations. A 8x6 or 8x8 MAN truck with special reinforced frames is used as a carrier. It has two equivalent winches which can be combined in any order (both possible as mainline or haulback line). All 4 guylines run inside the tower.

- Comfortable and safe operator cabin
- Skyline drum is equipped with a hydraulic cylinder to aid in drum spooling (radio controlled)
- Hydraulically controlled landing ramps and tiltable truck cab guards optional available (on both sides)

## TECHNICAL DATA :

### Line pull:

Skyline	26,450 lbs / 120 kN (tension section)
Winch 1 & 2	9,480 lbs / 43 kN (average drum)

### Line capacity:

Skyline	3600' Ø 3/4" / 1000 m Ø 20 mm swaged (2550' Ø 7/8" / 800 m Ø 22 mm swaged)
Winch 1 & 2	5150' Ø 7/16" / 1600 m Ø 11 mm swaged (3950' Ø 1/2" / 1350 m Ø 12 mm swaged)
Straw line	5500' Ø 1/4" / 1700 m Ø 6 mm
Guyline	4x250' Ø 3/4" / 4x75 m Ø 20 mm 2x50' / 2x15 m extensions

### Line speed:

Winch 1 & 2	
Unloaded drive	up to 1655 ft/min / 504 m/min
Loaded drive	up to 1260 ft/min / 384 m/min

### Tower:

Standard	34' / 10,5 m
Operating range	360°

### Power station:

- Truck diesel engine with 434 HP (324 kW) for example
- Utilization of the direct auxiliary drive (gearbox independent) – so the full engine power can be used without any transmission problems
- Continuous hydrostatic transmission for all winches

### Brakes:

Skyline	hydraulically actuated spring-applied multi-disk brake
Winch 1 & 2	hydraulically actuated spring-applied multi-disk brake
Straw line	pneumatically actuated spring-applied drum brake

### Operation:

- **KOLLERMULTIMATIK** and operator cabin
- Radio control for auxiliary functions

### Carriage:

USKA 2,5 / MSK 4

### Total weight including lines:

On a 4-axle truck: 77,200 lbs / 35.000 kg



K507GH Euro 6 and air-conditioned cabin



# K 602 GH Mountain Harvester

Truck mounted yarder - for uphill logging, with crane and processor head

The **K602GH** is a powerful and robust yarder for uphill logging.

It is principally used for selective cuts and for general wood harvesting operations. High speed at maximum tension. A 6x4 or 6x6 MAN truck with special reinforced frames is used as a carrier.

- 4 hydraulically powered guyline winches – operated by radio control
- Durable mainline drum constructed with cast steel
- High efficient straight bevel winch gearbox
- Skyline spooling guided by hydraulic cylinder

## TECHNICAL DATA :

### Line pull:

Skyline 20,940 lbs / 95 kN (tension section)  
Mainline 11,020 lbs / 50 kN (average drum)

### Line capacity:

Skyline 700 m Ø 13/16" / 2250' Ø 7/8" /  
830 m Ø 20 mm swaged  
Mainline 2100' Ø 1/2" /  
730 m Ø 12 mm swaged  
Straw line 5500' Ø 1/4" / 1700 m Ø 6 mm  
Guyline 4 or 5x160' Ø 3/4" /  
4 or 5x50 m Ø 20 mm  
2x50' / 2x15 m extensions

### Line speed:

Mainline up to 1960 ft/min / 600 m/min

### Tower (depending on country-specific traffic regulations!):

Standard 34' / 10,5 m  
With tower extension possible up to 46' / 14 m  
Foldable tower 34' / 10,5 m  
Telescopic tower up to 44' / 13,5 m (two working positions)  
Operating range 360°

### Power station:

- Truck diesel engine with 473 HP (353 kW)
- Utilization of the direct auxiliary drive (gearbox independent) – so the full engine power can be used without excessive transmission wear
- Continuous hydrostatic transmission of all winches

### Brakes:

Skyline 2 hydraulically actuated spring-applied disk brakes  
Mainline pneumatically actuated spring-applied band brake  
Straw line hydraulically actuated spring-applied multi-disk brake

### Operation:

- **KOLLERMULTIMATIK** and operator cabin
- Radio control for auxiliary functions

### Carriage:

SKA 2,5-Z / MSK 4 / MSK 10

### Total weight including lines:

Truck for uphill logging: 68,300 lbs / 31.000 kg  
Add. Weight – tower extension (optional): up to 620 lbs / 280 kg  
Add. Weight – telescopic tower (optional): 1,100 lbs / 500 kg



**K602GH with tower extension**



**K602GH with telescopic tower**



**K602GH**



**Truck mounted yarder - for uphill and downhill logging, as tower yarder only**

**The K507S** is a result of further development of the K507 truck version. This powerful truck mounted yarder was designed to work with excavator based processor. The shortest truck based yarder of it's class.

- Easy accessibility landed trees by excavator based processor
- Space required similar to trailer mounted yarder
- Skyline spooling guided by hydraulic cylinder
- Total weight less than 57,320 lbs / 26.000 kg

## TECHNICAL DATA :

### Line pull:

Skyline	26,450 lbs / 120 kN (tension section)
Winch 1 & 2	9,480 lbs / 43 kN (average drum)

### Line capacity:

Skyline	3600' Ø 3/4" / 1000 m Ø 20 mm swaged (2550' Ø 7/8" / 800 m Ø 22 mm swaged)
Winch 1 & 2	5150' Ø 7/16" / 1600 m Ø 11 mm swaged (3950' Ø 1/2" / 1350 m Ø 12 mm swaged)
Straw line	5500' Ø 1/4" / 1700 m Ø 6 mm
Guyline	4x250' Ø 3/4" / 4x75 m Ø 20 mm 2x50' / 2x15 m extensions

### Line speed:

Winch 1 & 2	
Unloaded drive	up to 1655 ft/min / 504 m/min
Loaded drive	up to 1260 ft/min / 384 m/min

### Tower:

Standard	39' / 12 m
Operating range	360°

### Power station:

- Truck diesel engine with 394 HP (294 kW) for example
- Utilization of the direct auxiliary drive (gearbox independent) – so the full engine power can be used without any transmission problems
- Continuous hydrostatic transmission for all winches

### Brakes:

Skyline	hydraulically actuated spring-applied multi-disk brake
Winch 1 & 2	hydraulically actuated spring-applied multi-disk brake
Straw line	pneumatically actuated spring-applied drum brake

### Operation:

- **KOLLERMULTIMATIK** by operator console
- Radio control for auxiliary functions

### Carriage:

USKA 2,5 / MSK 4

### Total weight including lines:

Minimum 54,000 lbs / 24.500 kg



**K507S**





# K 602 Power Yarder

Truck or trailer mounted yarder - for uphill logging, automated or manual

The **K602** is a powerful yarder for uphill logging. The machine is equipped with a self-supporting frame, allowing a simple assembly on various trucks or trailers as well as easy worldwide export. It is principally used for selective cuts and for general wood harvesting operations. The machine is characterized by its robust power transmission and its simple operation.

- Very low fuel consumption - approx. 1 gal/hour (4 litres/hour)
- High speed with heavy loads because of torque-converter and powershift transmission
- Easy maintenance due to its simple construction
- Skyline spooling guided by hydraulic cylinder

## TECHNICAL DATA :

### Line pull:

Skyline	25,350 lbs / 115 kN (tension section)
Mainline	14,330 lbs / 65 kN (average drum)

### Line capacity:

Skyline	700 m Ø 13/16" / 2250' Ø 7/8" / 830 m Ø 20 mm swaged
Mainline	2100' Ø 1/2" / 730 m Ø 12 mm swaged
Straw line	4250' Ø 1/4" / 1500 m Ø 6 mm
Guyline	4 or 5x160' Ø 3/4" / 4 or 5x50 m Ø 20 mm 2x50' / 2x15 m extensions

### Line speed:

Mainline	
Unloaded drive	up to 1960 ft/min / 600 m/min
Loaded drive	up to 1140 ft/min / 350 m/min

### Tower:

Standard	34' / 10,5 m
With tower extension	possible up to 46' / 14 m
Telescopic tower	up to 44' / 13,5 m (two working positions)
Operating range	360°

### Power station:

- 6-cylinder Cummins diesel engine with 185 HP (138 kW)
- Allison automatic transmission
- Pneumatically operated radial clutches on the skyline / mainline drum

### Brakes:

Skyline	2 hydraulically actuated spring-applied disk brakes
Mainline	pneumatically actuated spring-applied band brake
Straw line	hydraulically actuated spring-applied multi-disk brake

### Operation:

- Manual version: manual control by operator cabin
- Automated version: **KOLLERMULTIMATIK** and operator cabin
- Empty cycle is done by mainline brake automatically
- Radio control for auxiliary functions

### Carriage:

SKA 2,5 / SKA 2,5-Z / MSK 4 / MSK 10

### Total weight:

26,500 lbs / 12.000 kg including lines  
19,800 lbs / 9.000 kg without lines  
Add. Weight – tower extension (optional): up to 620 lbs / 280 kg  
Add. Weight – telescopic tower (optional): 1,100 lbs / 500 kg



**K602 Power Yarder automated with KOLLERMULTIMATIK**



**K602 Power Yarder manual version**





# K 702 Power Yarder

Track, truck or trailer mounted yarder - for uphill and downhill logging

**The K702** is the most powerful and fastest Koller yarder for uphill, downhill and flat terrain logging. The machine is equipped with a self-supporting frame, allowing simple assembly on various trucks and trailers as well as easy worldwide export. It is principally used for selective cuts and for general wood harvesting operations. All 4 guylines run inside the tower, they are not disturbing at setup. All guylines are powered hydraulically.

- Low fuel consumption
- High speed with heavy loads because of converter and powershift transmission
- Easy and low-cost maintenance due to simple construction
- Skyline spooling guided by hydraulic cylinder

## TECHNICAL DATA :

### Line Pull:

Skyline	26,450 lbs / 120 kN (tension section)
Winch 1 & 2	17,640 lbs / 80 kN (average drum)

### Line capacity:

Skyline	2550' Ø 7/8" swaged / 800 m Ø 22 mm swaged (700 m Ø 24 mm)
Winch 1 & 2	2800' Ø 9/16" / 900 m Ø 14 mm swaged
Straw line	5500' Ø 1/4" / 1700 m Ø 6 mm
Guyline	4x160' Ø 7/8" / 4x50 m Ø 22 mm 2x50' / 2x15 m extensions

### Line speed:

Winch 1 & 2	up to 2160 ft/min / 660 m/min
-------------	-------------------------------

### Tower:

Standard	39' / 12 m
With tower extension	49' / 15 m
Operating range	left and right side of the vehicle

### Power station:

- 6-cylinder Cummins diesel engine with 214 HP (160 kW)
- John Deere powershift transmission (3 f / 3 r gears)
- Straight bevel gear transmission with a common main shaft for both mainline drums
- Stepless hydrostatic transmission for skyline and straw line

### Brakes:

Skyline	hydraulically actuated spring-applied multi-disk brake
Winch 1 & 2	pneumatically actuated spring-applied band brake
Straw line	pneumatically actuated spring-applied drum brake

### Operation:

- Manual version: manual control by operator cabin
- Automated version: **KOLLERMULTIMATIK** and operator cabin
- Radio control for auxiliary functions

### Carriage:

SKA 2,5 / SKA 2,5-Z / USKA 2,5 / MSK 4

### Total weight:

With standard cabin:  
24,300 lbs / 11.000 kg without lines  
33,100 lbs / 15.000 kg including lines  
With comfort cabin & rollover protection:  
(for assembling on a track vehicle)  
30,900 lbs / 14.000 kg without lines  
41,900 lbs / 19.000 kg including lines



**K702 Power Station automated with KOLLERMULTIMATIK**



**K702 track based**

**K702 with comfort cabin & rollover protection**





# Cabin & crane & processor head

## Additional equipment

Customer-specific special requests and additional accessories and parts can be provided. Numerous attachments and options are available.

### GENERAL DESCRIPTION:

#### CABIN:

- Comfort cabin mounted on the side of the crane
- Front and side entry
- Air suspended comfort seat with integrated crane and winch joysticks
- Temperature-controlled auxiliary heating system
- Air conditioner (optional)
- 3 LED working lights and interior light
- Wiper and windscreen washer system on the front door
- Radio with hands-free equipment
- Back window and dormer window for ventilation
- Glazing with bullet-resistant polycarbonate windows on the area at risk (protection against parts from the processor chain)
- Certified cabin according to
  - FOPS ISO 8083
  - OPS ISO 8084
  - Bullet resistance rate UL752 Level I (9 mm Full Metal Jacket)
  - Optional also SAE J 1356

#### CRANE:

- Different models of cranes are available
- Hydraulic power supply specifically sized for the crane
- Cranes up to 200000 ftlbs (270 kNm) lifting moment and 31' (9,4 m) operating distance
- Rugged supports

#### PROCESSOR HEAD:

- Different processor models are available (Standard: Woody 50 / 60)
- Hydraulic power supply specifically sized for the processor head

#### LANDING RAMPS:

- Two hydraulically actuated landing ramps
- Sturdy, anti-slip construction
- Adjustable, sturdy fence elements

#### TRUCK CAB GUARD:

- Two extendable swiveling and tiltable cab protectors

#### OTHER OPTIONS:

- Additional diesel fuel tank and fuel transfer pump
- Spooling winch or storage drum for guyline extensions
- Connection voltage 230 V
- Compressed-air connection
- Hydraulic oil filter system for longer maintenance intervals and longer lifetime
- Bio-degradable hydraulic oil
- Rigging accessories etc. from our large accessory catalogue





# KMM & wireless module & radio control

## Operation of KollerMultiMatik, wireless module, & radio control

- Excellent ergonomics
- Durable and long lasting
- Continual product refinement

### K O L L E R M U L T I M A T I K

#### General aspects:

- Radio controlled operation of the yarder unit supported by an innovative display unit
- Electronic synchronized run control for downhill operation
  - Stepless single lever operation
  - Application area "All-Terrain"
  - Electronic regulated line-tension for every operating situation
  - Full winch control when moving the carriage (in both directions)
- Fuel efficiency caused by electronic control
- Error diagnostics and debugging by GPRS-mobile phone

#### Display control:

- Operation and control of the machine
- Multiple operating displays (e.g. motor data, operating power, carriage speed and position, hydraulic oil temperature, fuel level, drive counter, operating hours)

#### Radio control:

- 2 man crew
  - Choker-setter controls carriage and winches during breakout
  - Yarder operator controls carriage and winches to unload
  - Between loading- and unloading point the carriage drives automatically along the programmed range
  - Operator has time for tree processing and choker setter has time to set chokers
- Chokersetter controls yarder and carriage by radio transmitter
- Yarder operator controls yarder and carriage by radio transmitter or multifunctional joysticks in the cabin
- Stepless hydrostatic transmission for all winches
- 1000 m range by radio control (without additional converter)
- Battery operating time up to 1 week
- Four-point channel selection
- Reliable electro-mechanical slackwire protection for working winches and straw line

#### Range programming:

- Display for easy range programming
- Start – Endpoint for slow cruising ranges with different adjustable speeds
- Continuous programmable automatic drive – speed by radio control
- Carriage arrival point changes according to work progress

#### Rigging functions:

- Freewheel for all winches
- Electronic haulback function for all winches

#### Safety:

- Cable break protection at carriage with emergency clamping
- Radio control carriage emergency clamping
- Radio controlled skyline emergency drop down
- Adjustable overload shutdown for working winches
- Adjustable maximum pull warning for choker setter through carriage horn
- Motor and machine control for self-protection of the machine



### WIRELESS MODULE

Display can be transferred by radio module to a slave unit, so that all **KOLLERMULTIMATIK**-functions are available – reaches up to 330 ft (100 m)

### RADIO CONTROL

Separate radio control for auxiliary functions:  
guyline drums – brace supports – hydraulic landing ramps...





# Koller Carriages

## Carriages for uphill logging

- **SKA** – The skyline clamping and loadhook release are triggered by reversing the direction of carriage travel (3-6 ft / 1-2 m)
- **ZIR** – The normal cycling system can be out of order. Tripping time from 3 up to 25 seconds
- **Z** – The switching operation of the skyline and mainline clamp can be effected anytime also with reeled-out choker



### SKA – 1

Skyline Ø 1/2" – 1" / Ø 12 – 24 mm  
 Mainline Ø 5/16" – 7/16" / Ø 8 – 11 mm  
 Weight 350 lbs / 160 kg (without accessories)  
 Payload limited by mainline

- Gravity operation for uphill logging
- Mechanical cycling system still mounted
- Optional with timing system ZIR
- 2 skyline pulleys



### SKA – 1 Z

Skyline Ø 1/2" – 1" / Ø 12 – 24 mm  
 Mainline Ø 5/16" – 7/16" / Ø 8 – 11 mm  
 Weight 420 lbs / 190 kg (without accessories)  
 Payload limited by mainline

- Gravity operation for uphill logging
- Mechanical cycling system still mounted
- With radio control and mainline clamp
- 2 skyline pulleys



### SKA – 2 , 5

Skyline Ø 3/4" – 1 1/8" / Ø 18 – 28 mm  
 Mainline Ø 3/8" – 9/16" / Ø 10 – 14 mm  
 Weight 595 lbs / 270 kg (without accessories)  
 Payload limited by mainline

- Gravity operation for uphill logging
- Mechanical cycling system still mounted
- Optional with timing system ZIR
- 4 skyline pulleys



### SKA – 2 , 5 Z

Skyline Ø 3/4" – 1 1/8" / Ø 18 – 28 mm  
 Mainline Ø 3/8" – 9/16" / Ø 10 – 14 mm  
 Weight 680 lbs / 310 kg (without accessories)  
 Payload limited by mainline

- Gravity operation for uphill logging
- With radio control and mainline clamp
- 4 skyline pulleys



# Koller Carriages

Carriages for up- and downhill logging



## USKA – 1, 5

Skyline	Ø 9/16" – 1" / Ø 14 – 24 mm
Mainline	Ø 3/8" – 7/16" / Ø 9 – 11 mm
Weight	760 lbs / 345 kg (without accessories)
Payload	limited by mainline

- Slack pulling carriage for up- and downhill operation
- Slack pulling by pulling cable off storage drum
- Radio controlled skyline- and mainline clamp
- Slack pulling distance: 83' / 70 m with Ø 3/8" / Ø 10 mm
- Radio controlled emergency clamping and cable break protection
- 2 skyline pulleys



## USKA – 2, 5 Z

Skyline	Ø 3/4" – 1 1/8" / Ø 18 – 28 mm
Mainline	Ø 3/8" – 9/16" / Ø 10 – 14 mm
Weight	790 lbs / 360 kg (without accessories)
Payload	limited by mainline

- Slack pulling carriage for up- and downhill operation
- Slack pulling by pulling cable off storage drum
- Radio controlled skyline- and mainline clamp
- Slack pulling distance: 83' / 70 m with Ø 3/8" / Ø 10 mm
- Radio controlled emergency clamping and cable break protection
- 4 skyline pulleys



**NEW**

**Wyssen compatible safety gate**

## MSK – 4

Skyline	Ø 3/4" – 1 1/4" / Ø 18 – 32 mm
Mainline	Ø 3/8" – 9/16" / Ø 10 – 14 mm
Weight	1750 lbs / 795 kg (without accessories)
Payload	limited by mainline

- Proven and improved technology of MSK-3
- Intermediate supports traversable from different manufacturers
- Motorized slack pulling carriage for up- and downhill operation
- Slack pulling force up to 1365 lbs (620 kg)
- 2 different speeds around 2.6 and 3.9 ft/sec (ca. 0,8 und 1,2 m/s)

- Power station by 7.4 HP (5,5 kW) diesel engine
- Radio controlled skyline- and mainline clamp
- Radio controlled emergency clamping and cable break protection
- 4 skyline pulleys
- Unlimited slack pulling length
- Haulbackline has no damage, it's just fixed at the backside of the carriage by a shackle
- Radio controlled engine start-stop
- Sideways swing in skyline clamp
- Improved safety gate
- Clutch system with mit brake function



# Koller Carriages

Slack puller for uphill logging



## MSK – 10

Skyline	Ø 3/4" – 1" / Ø 18 – 25 mm
Mainline	Ø 3/8" – 5/8" / Ø 10 – 16 mm
Weight	1320 lbs / 600 kg (without accessories)
Payload	limited by mainline

- Engine slack puller for uphill logging
- Slack pulling force up to 550 lbs (250 kg)
- Speed around 3.9 ft/sec (1,2 m/sec)
- Power station by 10.3 HP (7,7 kW) diesel engine
- Radio controlled skyline- and mainline clamp
- Active hydraulic clamp for the skyline
- 2 skyline pulleys
- Unlimited slack pulling length
- Radio controlled engine start-stop





## Mechanical felling wedge

The felling of the treetops is now much safer due to a vibration-free and simple operation. The felling wedge is characterized by its small size and light weight.

A simple take away of the wedge is made possible by hooking the felling wedge on the belt (only with the foldable ratchet possible). Your hands are free for other tools.

Another advantage is the direction of rotation of the spindle. The actuation occurs counterclockwise. The worker can ergonomically prop up on the tree and operate with his right hand pulling the lever.

***Granted patent of utility model!***



### Koller felling wedge for big trees

Unique ergonomic handling and carry. The mechanical felling wedge is operated using a ratchet.

When used with large diameter logs, we also recommend a telescopic ratchet (Item no. V-0800139).

Special burlings at the spreader plate prevent the coming-out of the chock.

■ Item no.	060-024-008
■ Net weight	6.5 lbs / 2,95 kg
■ Foldable ratchet	1.4 lbs / 0,65 kg
■ Telescopic ratchet optional	2.4 lbs / 1,10 kg
■ Total weight	7.9 lbs / 3,60 kg
■ Length/width/height	13.78/3.74/3.35 in 350/95/85 mm
■ Drive per revolution	0.098 in / 2,5 mm
■ Lever length	12.2 in / 310 mm
■ Lift per turn	0.04 in / 1,0 mm
■ Max. lift	1.38 in / 35 mm
■ Max. lifting force	44,100 lbs / 20 t
■ Wood thickness	big trees

### Koller felling wedge up to Ø 24" / Ø 60 cm

The lightest and smallest felling of its kind.

Unique ergonomic handling and carry. The mechanical felling wedge is operated using a ratchet.

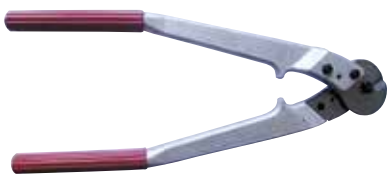
Special burlings at the spreader plate prevent the coming-out of the chock.

■ Item no.	060-025-008
■ Net weight	5 lbs / 2,30 kg
■ Foldable ratchet	1.4 lbs / 0,65 kg
■ Total weight	6.5 lbs / 2,95 kg
■ Length/width/height	13.78/2.56/3.35 in 350/65/85 mm
■ Drive per revolution	0.098 in / 2,5 mm
■ Lever length	12.2 in / 310 mm
■ Lift per turn	0.04 in / 1,0 mm
■ Max. lift	1.38 in / 35 mm
■ Max. lifting force	33,070 lbs / 15 t
■ Wood thickness	medium trees



# Accessories

Extract from our accessories program



Wire rope cutter C16



Tailspar Block E2



Wedge clamps



Choker with ring



Swivel



High performance block



Kunstfaserseil Samson (Dyneema)



Multistamp anchor



Tree climbing spurs



Length measuring counter



Tracing instrument



Safety belt



Straw line block



Radio controlled chokers



Intermediate support TS 1



**You can find the whole range of products in our new webshop!**

**<http://shop.kollergmbh.com>**

Intermediate supports  
Skyline clamps  
Mainline blocks  
Rigging blocks  
Cable tensioner  
Cable hoists  
Communication systems  
Tree climbing spurs  
Tracing instrument  
Clinometer  
Cable tensioning clamps  
Wedge clamps  
Polyester straps  
Chokers  
Skylines  
Mainlines  
Reels for wire rope  
Ackja winch  
Splicing tools  
Steel cables





# KOLLER

## FORSTTECHNIK

**The quality of our products is the result of 55 years of experience and continuous product development.**

**We can assure very high productivity and excellent resale value through combining the use of reliable, high quality components with the technical experience of our employees.**

**KOLLER GmbH**  
Kufsteiner Wald 26  
A-6334 Schwoich bei Kufstein/Austria

Phone 0043-5372-63257  
Fax 0043-5372-63257-7

E-Mail: [office@kollergmbh.com](mailto:office@kollergmbh.com)  
Homepage: [www.kollergmbh.com](http://www.kollergmbh.com)

We reserve the right to make changes as technical advances are made.

**[www.kollergmbh.com](http://www.kollergmbh.com)**